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**Cc:** Kamke, Sherry[Kamke.Sherry@epa.gov]  
**From:** Egan, Robert  
**Sent:** Thur 2/11/2016 3:25:44 PM  
**Subject:** FW: Tower Standard Hydraulic Conductivity Testing

Hi Kristen,

Sorry I missed your call.

This is the proposal for testing the wells. Overall it looks good to me. The technique is the same that I would request from our contractor. If for some reason the tests run poorly, we would then ask for additional work. I can always have Bristol do follow up, but it will save me the funding to have PECFA pay for it.

I will ask Chris if they can provide some velocity calculations in their report, for both vertical and horizontal movement.

Please let me know if you have any comments on this.

Thank you.

Bob Egan

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**From:** Saari, Christopher A - DNR [mailto:Christopher.Saari@wisconsin.gov]  
**Sent:** Thursday, February 11, 2016 8:55 AM  
**To:** Egan, Robert <egan.robert@epa.gov>  
**Cc:** Robinson, John H - DNR <John.Robinson@wisconsin.gov>; Fassbender, Judy L - DNR <Judy.Fassbender@wisconsin.gov>  
**Subject:** Tower Standard Hydraulic Conductivity Testing

Hi Bob:

I received a cost proposal from REI to perform the hydraulic conductivity measurements that we discussed in Madison last week, and I wanted to run the concept by you to make sure it will meet the needs of EPA and LDF. In a nutshell, REI has proposed:

- Complete hydraulic conductivity calculations at all 17 wells (assume 2 hours per test)
- Data interpretation: download well specific data and conduct hydraulic conductivity calculation. Data to be presented will include copy of data download graph and conductivity calculation
- Datalogger charge: REI will be using InSitu Level Troll 500 loggers. The loggers will be atmospherically vented and will automatically compensate for barometric pressure fluctuations. REI will also use a water level indicator to collect manual measurements to ensure data is calibrated.

REI indicated that typically they run slug tests (introduce stainless slug and allow water levels to stabilize and pull the slug and measure recovery). Per Dave Larsen, some of the wells probably will recover too soon for this method and Larsen want to make sure that all parties are on board with these methods.

I should be available today if you want to discuss this, but I'll be out tomorrow. Otherwise next week would be fine, too. Thanks.

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